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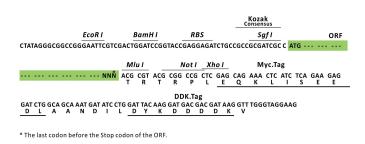
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Product datasheet for RC231033L3

Myosin Phosphatase 2 (PPP1R12B) (NM_001197131) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids	
Product Name:	Myosin Phosphatase 2 (PPP1R12B) (NM_001197131) Human Tagged Lenti ORF Clone	
Tag:	Myc-DDK	
Symbol:	Myosin Phosphatase 2	
Synonyms:	MYPT2; PP1bp55	
Mammalian Cell Selection:	Puromycin	
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)	
E. coli Selection:	Chloramphenicol (34 ug/mL)	
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC231033).	
Restriction Sites:	Sgfl-Mlul	
Cloning Scheme:		
	Cloning sites used for ORF Shuttling:	
	Sgf I ORF Mlu I GCG ATC GC[C ATG / / NNÑ ACG CGT	



ACCN:	
ORF Size:	

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NM_001197131

558 bp

Myosin Phosphatase 2 (PPP1R12B) (NM_001197131) Human Tagged Lenti ORF Clone – RC231033L3	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Met	 hod: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 001197131.1, NP 001184060.1</u>
RefSeq ORF:	561 bp
Locus ID:	4660
UniProt ID:	<u>060237</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome
Protein Pathways:	Vascular smooth muscle contraction
MW:	21.8 kDa
Gene Summary:	Myosin phosphatase is a protein complex comprised of three subunits: a catalytic subunit (PP1c-delta, protein phosphatase 1, catalytic subunit delta), a large regulatory subunit (MYPT, myosin phosphatase target) and small regulatory subunit (sm-M20). Two isoforms of MYPT have been isolatedMYPT1 and MYPT2, the first of which is widely expressed, and the second of which may be specific to heart, skeletal muscle, and brain. Each of the MYPT isoforms functions to bind PP1c-delta and increase phosphatase activity. This locus encodes both MYTP2 and M20. Alternatively spliced transcript variants encoding different isoforms have been identified. Related pseudogenes have been defined on the Y chromosome. [provided by

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RefSeq, Oct 2011]